INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2003/002897 CLASSIFICATION OF SUBJECT MATTER **IPC7 H01L 33/00, C09K 11/08** According to International Patent Classification (IPC) or to both national classification and IPC **B**. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L C09K H01J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions, since 1973 Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. US 4755715 (AMERICAN TELEPHONE & TELEGRAPHY COMPANY, AT&T BELL 1-25 A LABORATORIES) 05 JULY 1988 see the whole documents US 6066861 (SIEMENS AKTIENGESELLSCHAFT) 23 MAY 2000 1-25 A see the whole documents US 6614179 B1 (NICHIA KAGAKU KOGYO KABUSHIKI KAISHA) 1-25 Α 02 SEPTEMBER 2003 see the whole documents US 6522065 B1 (GENERAL ELECTRIC COMPANY) 18 FEBRUARY 2003 1-25 · Α see the whole documents US 4539506 (INTERNATIONAL BUSINESS MACHINES CORPORATION) 9-10, 16, 19, 23 A **13 SEPTEMBER 1985** see the whole documents X See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: later document published after the international filing date or priority document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention earlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of citation or other document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later document member of the same patent family than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 20 SEPTEMBER 2004 (20.09.2004) 21 SEPTEMBER 2004 (21.09.2004) Authorized officer Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, KIM, Dong Yup

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